

***LYSIMACHIA LATIFOLIA* (MYRSINACEAE),  
AN OVERLOOKED NOMENCLATURAL CHANGE**

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**ABSTRACT**

*Lysimachia latifolia* (Hook.) Cholewa is a new combination for the overlooked *Trientalis latifolia* Hook.

Phylogenetic relationships within Primulaceae s.l. examined by Anderberg and Ståhl (1995) led to extensive reevaluation of the entire Lysimachieae clade. Some years later, Anderberg and colleagues (Anderberg et al. 2007; Källersjö et al. 2000; Manns & Anderberg 2005, 2007a, 2007b; Martins et al. 2003; and others) clearly showed that the traditionally segregated genera of *Anagallis*, *Glaux*, *Trientalis*, and others were specialized taxa derived from within *Lysimachia*. As a result generic realignments were necessitated.

*Glaux maritima* was merged in *Lysimachia* by Banfi et al. (2005) to become *Lysimachia maritima* (L.) Gelasso, Banfi, & Soldano. Manns and Anderberg (2009) subsequently published the necessary new combinations, along with typification comments for *Anagallis*, *Pelletiera*, and *Trientalis*. Within the North American flora, the following changes were made:

*Anagallis arvensis* L. became *Lysimachia arvensis* (L.) U. Manns & Anderb.;  
*Anagallis foemina* Mill. became *L. foemina* (Mill.) U. Manns & Anderb.;  
*Anagallis monelli* L. became *L. monelli* (L.) U. Manns & Anderb.;  
*Anagallis pumila* Sw. became *L. ovalis* (Ruíz & Pav.) U. Manns & Anderb.;  
*Centunculus (Anagallis) minimus* L. became *L. minima* (L.) U. Manns & Anderb.;  
*Trientalis borealis* Raf. became *L. borealis* (Raf.) U. Manns & Anderb.; and  
*Trientalis europaea* L. became *L. europaea* (L.) U. Manns & Anderb.

The nomenclatural updates were incomplete, however, omitting *Trientalis latifolia* Hook. This was understandable since this taxon has sometimes been included within *T. borealis* or *T. europaea*. In the Flora of North America treatment, Cholewa (2009) kept *T. latifolia* as a distinct species, thus the following new combination is proposed.

***LYSIMACHIA LATIFOLIA* (Hook.) Cholewa, comb. nov.** *Trientalis latifolia* Hook., Fl. Bor.-Amer. 2(9): 121. 1838. *Trientalis borealis* Raf. subsp. *latifolia* (Hook.) Hultén, Ark. Bot., n.s., 7(1): 105. 1967. *Trientalis europaea* L. var. *latifolia* (Hook.) Torrey, Pacif. Railr. Rep. 4(5): 118. 1857. *Trientalis europaea* L. subsp. *latifolia* (Hook.) A.E. Murray, Kalmia 12: 25. 1982.  
**TYPE:** USA. Washington. [Clark Co.]: About Fort Vancouver, Walla-wallah [sic] River, Tolmie s.n. (holotype: K unconfirmed; isotype: GH digital image!).

**LITERATURE CITED**

Anderberg, A.A. and B. Ståhl. 1995. Phylogenetic interrelationships in the order Primulales, with special emphasis on the family circumscriptions. Canad. J. Bot. 73: 1699–1730.

- Anderberg, A.A., U. Manns, and M. Källersjö. 2007. Phylogeny and floral evolution of the Lysimachieae (Ericales, Myrsinaceae): Evidence from *ndhF* sequence data. *Willdenowia* 37: 407–421.
- Banfi, E., G. Galasso, and A. Soldano. 2005. Notes on systematics and taxonomy for the Italian vascular flora 1. *Atti Soc. Ital. Sci. Nat. Mus. Vivico storia Nat. Milano* 146: 219–244.
- Cholewa, A.F. 2009. *Trientalis*. *Flora of North America* 8: 303–305.
- Källersjö, M., G. Bergqvist, and A.A. Anderberg. 2000. Generic realignment in primuloid families of the Ericales s.l.: A phylogenetic analysis based on DNA sequences from three chloroplast genes and morphology. *Amer. J. Bot.* 87: 1324–1341.
- Manns, U. and A.A. Anderberg. 2005. Molecular phylogeny of *Anagallis* (Myrsinaceae) based on ITS, *trnL-F*, and *ndhF* sequence data. *Int. J. Pl. Sci.* 166: 1019–1028.
- Manns, U. and A.A. Anderberg. 2007a. Character evolution in *Anagallis* (Myrsinaceae), inferred from morphological and molecular data. *Syst. Bot.* 32: 166–179.
- Manns, U. and A.A. Anderberg. 2007b. Relationships of *Anagallis foemina* and *A. arvensis* (Myrsinaceae): New insights inferred from DNA sequence data. *Molec. Phylogenet. Evol.* 45: 971–980.
- Manns, U. and A.A. Anderberg. 2009. New combinations and names in *Lysimachia* (Myrsinaceae) for species of *Anagallis*, *Pelletiera* and *Trientalis*. *Willdenowia* 39: 49–54.
- Martins, L., C. Oberprieler, and F.H. Hellwig. 2003. A phylogenetic analysis of Primulaceae s.l. based on internal transcribed spacer (ITS) DNA sequence data. *Pl. Syst. Evol.* 237: 75–85.